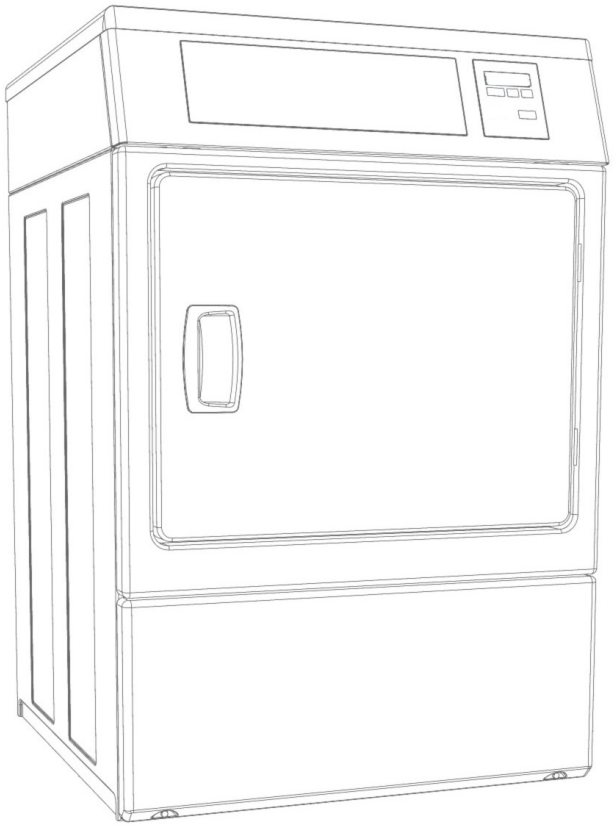


Installation and operation manual

Tumble dryer T 201 E

PODAB

Thank you for choosing this tumble dryer T 201 E from PODAB. We hope that it will be of great use and ask you kindly to read the instructions carefully.

IMPORTANT!

FOR YOUR SAFETY, the information in this manual must be followed to prevent property damage and personal injury.

NOTE: The paragraphs marked “WARNING” and “CAUTION” appearing in this manual are not meant to cover all possible conditions and situations that may occur. It is very important that water and electricity are handled with great care and respect, by both installation technicians and end users.

©PODAB 2012

Contents

Safety regulations 4

Important safety instructions

Specifications 5

Dimensions
Technical information

Installation guide 6

Step 1: Put the tumble dryer in place
Step 2: Installation without plinth
Step 3: Connect the tumble dryer to the ventilation channel
Step 4: Connect the tumble dryer to the main switch
Step 5: Control that the heating relay is working

Requirements for ventilation 7

Ventilation channel – choice of material
Requirements for incoming air
Ventilation channel – design
Evacuated amount of air and pressure fall

User manual 8

Automatic programs
Timed drying
Gentle drying

Maintenance 9

Take good care of the dryer
Ventilation system
Keep your dryer efficient and economical

©PODAB 2012

Safety regulations

Important safety instructions

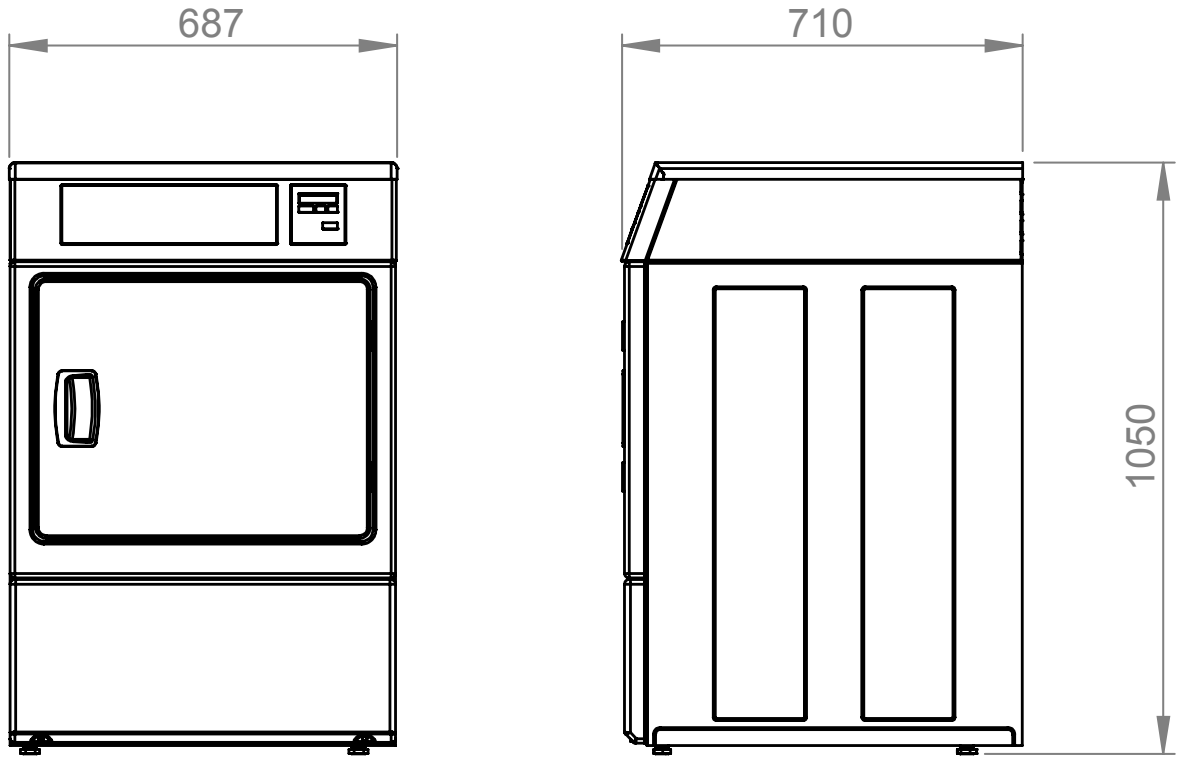
WARNING
To minimize the risk of fire, electrical shock, personal injuries or death when the dryer is in use the following precautions must be followed:

1. Read the instruction before using the tumble dryer.
2. Follow the instructions in the installation guide for proper grounding.
3. Never dry textiles that have been washed, dipped or exposed to fire dangerous substances or fluids.
4. Never add fire dangerous or explosives substances in the dryer.
5. The dryer is not a toy. Look after the children who are around the cabinet.
6. Never connect the dryer with an extension cable.
7. Only use the tumble dryer for what it is designed for: drying clothes.
8. Always turn off the main switch before performing any service. Only authorized service technicians should perform service.
9. Always follow the installation manual. The electrical connections must be done by authorized personnel.
10. Keep after the tumble dryer. If it is exposed for violence there is a risk that certain security functions will stop working. Please contact your nearest service partner if you are unsure of the dryer's status.
11. If the electrical cable is damaged, it must immediately be changed by a person with electrical authorization.
12. The door shall always be shut when the product is in use. Don't try to manipulate the lock of the door. It can lead to personal injuries. If the tumble dryer doesn't stop when the door is opened during the drying phase, call for service. The tumbler should not be used if the drying program is active when the door is open!
13. Look after the area around the evacuating pipe so it is clean from dust and dirt.
14. To get the best drying result, follow the garments washing & drying advice.
15. Never use the tumble dryer if any panel is broken or removed.
16. Never use the dryer if any parts, on the outside or inside, are broken.
17. Never try to manipulate or bypass any safety functions.

©PODAB 2012

Specifications

Dimensions



Technical information

Loading capcity, kg	10 kg
Drum volume, l	201
Drying capacity, g/min *	72
Drying time, min *	60
Evacuated air, max, m³/h	210
Exhaust Ø, mm	100
Electrical connection	3~N, 400 V, 50 Hz
Heating effect, kW	4,5
Total effect, kW	6,3
Energy consumption/kg, kWh*	0,41
Fuse, A	10
Article number	121053
*Drying of 10 kg cotton (dry weight), washed and high-spinned to 43 % residual moisture. Dried to 0 % residual moisture.	

©PODAB 2012

Installation guide

Step 1: Put the tumble dryer in place

Remove the packaging. When installing the appliance, take note of its dimensions and the space requirement for the connection of an exhaust air duct. Also make sure that there is enough room in front of the dryer for the door to be opened fully.

NOTE: We recommend that the machine is installed on a firm and level floor.

Step 2: Installation without plinth

If the tumble dryer is to be installed directly on a conctrete floor (or on a conctrete plinth) PODAB recommends the following work flow:

- Place the dryer on the desired installation spot.
- Mark the holes for the fastening brackets (accessorie, article number 210008). The fastening brackets should secure one foot at the front and one at the back (diagonally placed). The brackets prevent the machine from tipping.
- Drill and place drilling plugs in the holes.
- Place the dryer and align the appliance with the help of a spirit level all sides. If necessary, correct the height of the tumble dryer feet.
- Fasten the choosen feet with the brackets and tighten the screws fixating the brackets to the floor.

For installation on an steel plinth follow the instructions included with the plinth (accessorie, article number 101212).

Step 3: Connect the tumble dryer to the ventilation channel

For further instructions, se page 7: Requirements for ventilation.

- Do not use ventilation channels made of plastic or foil.
- Place the dryer so that the ventilation channel is as short as possible.
- Make sure that the ventilation channel is cleaned when a new dryer is installed.
- Use a 125 mm rigid or flexible metal duct to the evacuation connection.
- If you use rigid ducts, it is important that the male connector of the ventilation tube on each section follows the air direction.
- The construction shall be as straight as possible.
- Always isolate ducts that go through non-isolated areas. The condensation leaves dust and dirt get stuck in the channel.

NOTE: If the dryer is not connected according to these recommendations, the warranty is no longer valid.

Step 4: Connect the tumble dryer to the main switch

To prevent fire and electrical shock, the dryer MUST be connected according to the color codes on the cables. Only an authorized electrician is allowed to install the electrical connection. The dryer is prepared for one of the following electrical connections depending on specification:

- 400 V, 3-N, 50 Hz (standard)
- 220 V, 3-N, 50 Hz
- 440 V, 3-N, 50 Hz

NOTE: Only an authorized electrician should carry out the electrical connection.

WARNING

It is the customers responsibility to check that an authorized electrician install the electrical connections.

To prevent personal injuries, the dryer shall always be connected permanently through an all pole main switch. Always ground the appliance. Also check that the connecting cable has a strain relief bushing. If not, there is a risk that the dryer will be live.

Step 5: Control that the heating relay is working

Shut the door and start the dryer, after about 3 seconds you can hear the heating relay hit. Wait a couple of minutes and control that the outgoing air channel becomes warm.

If the outgoing air channel does not get warm, go back to step 4 and control that the electrical connection is installed correctly.

©PODAB 2012

Requirements for ventilation

Ventilation channel – choice of material

The ventilation channels shall be at least 100 mm in diameter and should have a smooth inner wall.

We recommend that the ventilation system is built with rigid metal ducts for best result. Flexible evacuating ducts for tumble dryers can also be used.

NOTE: Never use flexible ducts through walls or other covered areas.

NOTE: Do not screw or nit the ventilation channel, so that the screws will come through the inside of the pipe. This construction will gather dust and impair the dryer's performance.

Requirements for incoming air

In order to make the dryer work properly, it is very important that there is enough incoming air in the room. If the dryer is installed according to this manual the air flow from the exhaust will be about 150 m³/h. Incoming air must be at least equal to the outgoing flow. We recommend the air flow to be greater than the evacuated amount.

If the dryer is placed in a room where the incoming air flow is insufficient, we recommend that you install an air exchanger.

Ventilation channel – design

IMPORTANT: Always make the channels as short as possible.

NOTE: If a tumble dryer is installed in an old ventilation channel, please clean the channel properly.

In order for the dryer to work properly, the incoming air flow must be sufficient. The amount of evacuated air per hour is depending on how high the pressure fall in the ventilation channel is.

Material, the design and the length of the channel have a large impact on the air flow. In order to get the best possible performance, the pressure fall shall be as low as possible.

When the air is transported through the channel, it is exposed to different kind of resistance. Factors that give a low pressure fall:

- Smooth inner walls on the pipe
- Large diameter on the pipe
- Short length on the pipe
- Few curves
- Few angels (90 degrees)

Evacuated amount of air and pressure fall

In order to get the cabinet to work properly, the ventilation channel shall be designed to get an outcoming air flow from the dryer of at least 150 m³/h. In order to get this air flow, the pressure fall must not exceed 50 Pa. By an air flow of 150 m³/h and a diameter of the pipe of 100 mm, this corresponds to a straight, smooth ventilation channel of 13 m.

Pressure fall estimation

The counter pressure in the ventilation channel can be measured with a pressure meter. The measuring point shall be placed by the evacuating outlet of the dryer.

In order to estimate the pressure fall without meter equipment we recommend the following:

- Identify the ventilation channel's incoming components in the air flow direction.
- Check the part pressure fall for each component in the table.
- Calculate the total amount of pressure fall by adding each parts pressure fall.

The table shows the most common components in a ventilation system. The information shall be considered as approximate data. For more information, contact the manufacturer of the parts of the system.

NOTE: The data is for an air flow of 150 m³/h.

Component			Pressure fall
Circular channel	ø, mm		Pa/m
	100		4
	125		1,3
Pipe bends 90°	ø, mm	Bend radius, mm	Pa/bend
	100	100	6,5
	125	125	3
Reduction	Transition, mm		Pa/reduction
	100 till 125		4,2
	125 till 100		4,5

Example: 9 m long 100 mm channel with 2 pipe curves which gives an estimated pressure fall of (9 x 4) + (2 x 6,5) = 49 Pa.

NOTE: If the highest allowed level of air pressure is exceeded an external fan could be needed. Otherwise the drying result is effected negatively. T 201 E is prepared for an external fan. Contact your local dealer or PODAB for more information.

©PODAB 2012

User manual

Fill the dryer

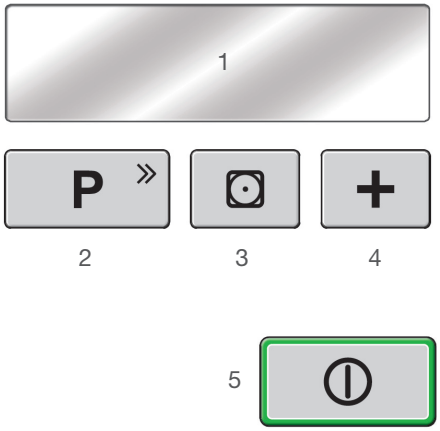
To get the best drying result: dry the same type of material at the same time. Never fill the dryer with more than 10 kg laundry (dry weight).

Close the door

The dryer will not start until the door is completely closed.

Keypad

1. Display
2. Program select*
3. Gentle drying ON/OFF
4. Increase time
5. Start/stop



* Program fast forward during drying.

Select program

Change program by pushing program select (button 2). The symbol of the chosen program gets highlighted and the program name is showed on the screen. Read more about the different programs below.

Start program

Push start/stop button (button 5) in order to start the tumble dryer.

Pause program

To pause a working programme, open the door. Close the door and push the start button to continue drying.

Cancel program

To cancel a working program push the start-/stop button.

CAUTION

If a program is interrupted before the cool down has finished, the inside of the drum could be very hot.

Cool down

All programs have a cool down phase of 5 minutes. This cool down time is included in the chosen time for the timed drying program. During cool down the clothes are reconditioned and the dryer is cooled down. A running program can be fast forward to cool down using the P-button.

Automatic programs

The drying cabinet is equipped with the function HTS – Humidity Tracking System. This function is activated in the automatic program mode. The drying time adjusts to the laundry in the dryer.

Chose automatic program

T 201 E has four automatic programs:

IRON DRY

For laundry to be ironed.

SLIGHTLY DRY

For laundry that will not be ironed or only lightly ironed.

CABINET DRY

For laundry that will not be ironed.

EXTRA DRY

For particularly thick or multilayered fabrics.

Select drying time manually

TIMED DRYING

The tumble dryer has a timed drying program, to set the drying time manually.

Set the time

Increase the drying time with the plus button (button 4). The drying time can be increased to maximum 2 h. The drying time can also be increased when the program has been started.

Gentle drying

For sensible textiles, gentle drying can be used. The temperature is reduced. Push button 3 to activate.

©PODAB 2012

Maintenance

Take good care of the dryer

Only use a damp cloth with a mild detergent when cleaning the cabinet. Never use solvent to clean the display.

Ventilation system

Loosen the ventilation pipe on the dryer every year and clean if necessary around the evacuating channel.

IMPORTANT: Always switch off the electricity before starting to work with the dryer.

Inspect with set intervals the complete ventilation channel; don't forget the outer wall. There can easily be leafs and other rubbish that chokes.

We recommend that you once a year, take down the service doors and vacuum clean around the fans and elements.

Keep your dryer efficient and economical

- The ventilation channels shall be as short as possible.
- Do not exceed the maximum loading capacity of 10 kg.
- If possible, dry the same type of textiles at the same time.

©PODAB 2012

Notes

©PODAB 2012

©PODAB 2012

SERVICE/SUPPORT

Phone +46 31-752 01 00

Fax +46 31-752 01 50

E-mail parts@podab.se

www.podab.com

AB PODAB, Ekonomivägen 9, 436 33 Askim, SWEDEN
Tel +46 (0)31-752 01 00, Fax +46 (0) 31-752 01 50 E-mail: sales@podab.se, www.podab.com

©PODAB 2012-09-11